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10/699,323	10/31/2003	Sanjai Singh	MWS-089RCE	2561
250 00/95/2009 LAHIVE & COCKFIELD, LLP/THE MATHWORKS FLOOR 30, SUITE 3000 One Post Office Square Boston, MA 02109-2127			EXAMINER	
			KENDALL, CHUCK O	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/699,323 SINGH ET AL. Office Action Summary Examiner Art Unit CHUCK O. KENDALL 2192 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 21 November 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) See Continuation Sheet is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) See Continuation Sheet is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _______

Notice of Informal Patent Application

6) Other:

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Continuation of Disposition of Claims: Claims pending in the application are 1 - 3, 6 - 10, 12 - 19, 21, 23 - 30, 32 - 34, 37 - 41, 43 - 45, 48 - 52, and 54 - 57.

Continuation of Disposition of Claims: Claims rejected are 1 - 3, 6 - 10, 12 - 19, 21, 23 - 30, 32 - 34, 37 - 41, 43 - 45, 48 - 52, and 54 - 57.

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DETAILED ACTION

1. This is in response to amendment filed 11/21/08.

2. Claims 1 - 3, 6 - 10, 12 - 19, 21, 23 - 30, 32 - 34, 37 - 41, 43 - 45, 48 - 52, and 54 - 57 are pending.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1 – 3, 32 – 34, 37 – 45, and 48 – 55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Singh (US Patent 6,868,526) in view of Teng US 20030206654.

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Regarding claim 1, 48, and 52, Singh discloses a method, comprising the steps of:

receiving an input for selecting a first graphical object in an executable block diagram representing a system, the first graphical object having one or more properties, (see for example Fig. 3, item 42, 44 and 46, shows receiving a user selection and enabling the user to make changes) and transformation operations performable on the first graphical object (Fig. 3, 52 see changed parameter values and 54 apply subclass data to graphical class).

Although Singh doesn't expressly disclose displaying a list of one or more transformation operations performable on the first graphical object for transforming the first graphical object into a second graphical object for the executable block diagram, receiving an input for selecting one of the one or more transformation operations; and applying the first one of the one or more transformation operations on the first graphical object for creating the second graphical object, the second graphical object having one or more properties that are different from the one or more properties of the first graphical object, and incorporating the first graphical object and second graphical object into the execution block diagram, he does disclose storing a difference between the graphical class and the original graphical class (2:25 – 35) and also apply changes to a model (fig. 3, 44).

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However, Teng in an analogous art of morphing and performing object modifications discloses,

"...adjusting different kinds of said at least one first object by using different kinds of plural moving trajectories of said at least one first object in said first dynamic image; replacing the first object of the dynamic image with said selected second object and transforming said first dynamic image to become a second dynamic image, therefore displaying said second dynamic image having the replaced second object; and saving, via the user interface, said second dynamic image in said computer..." Emphasis added [0030].

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Singh and Teng because, it would enable performing transformations to objects as suggested by Teng above.

Regarding claim 2, the method of claim 1, wherein the list is displayed in one of a context menu, a toolbar or a roll-up menu (Singh, see for example Fig. 5d, and related text).

Regarding claim 3, the method of claim 1, wherein the first graphical object is selected by moving a pointer over the first graphical object (Singh, example "clicking on the library node..." see 5:63 – 6:6).

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Regarding claim 7, Singh discloses the method of claim 1, wherein the second graphical object has a class that is different from a class of the first graphical object (2: 25 – 35, shows difference between the original and the subclass).

Regarding claim 8, Singh discloses the method of claim 1, wherein the second graphical object is an instance of a superclass of the first graphical object (2: 25 – 35, see class and subclass).

Regarding claim 9, Singh discloses the method of claim 1, wherein the second graphical object is an instance of a subclass of the first graphical object (2: 25 – 35, see class and subclass).

Regarding claim 10, Singh discloses the method of claim 1, wherein the second graphical object shares a base class with the first graphical object (2: 25 – 35, see class and subclass).

Regarding claim 12, Singh discloses the method of claim 1, wherein the first transformation operation is a copy and morph operation (4:5 - 15, see copy and update).

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Regarding claim 13, Singh discloses the method of claim 1, wherein the second graphical object is a signal tap block for tapping a signal from the first graphical object (see for example Fig. 5C, and related text).

Regarding claim 14, Singh discloses the method of claim 13, wherein the first graphical object is a block having an output that represents the signal (see for example Fig. 5C, and related text).

Regarding claim Claim 15, Singh discloses the method of claim 13, wherein the first graphical object is a line representing the signal (see for example Fig. 5C, and related text).

Regarding claim 16, Singh discloses the method of claim 1, wherein the first graphical object and the second graphical object are functionally related blocks (see for example Fig. 213, item 24 and related text).

Regarding claim 17, Singh discloses the method of claim 1, wherein the first graphical object and the second graphical object are one of source blocks and sink blocks (see for example Fig. 2B, item 24 and related text).

Regarding Claim 18, Singh discloses the method of claim 1, wherein the second graphical object is an inverse graphical object of the first graphical object (see for example Fig. 213, and related text).

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Regarding Claim 19, Singh discloses the method of claim 1, wherein one of said second graphical object and said first graphical object is a bus creator block and the other of said second graphical object and said first graphical object is a bus selector block (see for example Fig. 213, and related text).

Regarding Claim 21, Singh discloses the method of claim 1, wherein the second graphical object has implicit links to the first graphical object (see for example Fig. 5E, and related text).

Claim 23, Singh discloses the method of claim 1, further comprising: executing a customized transformation operation (see for example Fig. 3, items 52 and related text).

Regarding claims 24, 37, 50 – 51, 54 and 55, Singh discloses a method of building a diagram, comprising the steps of:

receiving an input for selecting a first graphical object in an executable block diagram (see for example Fig. 3, item 42 and related text) representing a system, the first graphical object having one or more properties;

Although Singh doesn't expressly disclose displaying a list of one or more transformation operations performable on the first graphical object:

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receiving an input for selecting a transformation operation in the list; and based on the selected transformation operation executing a copy and morph operation on the first graphical object to create a second graphical object for the executable block diagram the second graphical object having one or more properties that are different from the one or more properties of the first graphical object, and incorporating the first graphical object and second graphical object into the execution block diagram, he does disclose storing a difference between the graphical class and the original graphical class (2:25 – 35) and also apply changes to a model (fig. 3, 44).

However, Teng in an analogous art of morphing and performing object modifications discloses,

"...adjusting different kinds of said at least one first object by using different kinds of plural moving trajectories of said at least one first object in said first dynamic image; replacing the first object of the dynamic image with said selected second object and transforming said first dynamic image to become a second dynamic image, therefore displaying said second dynamic image having the replaced second object; and saving, via the user interface, said second dynamic image in said computer..." Emphasis added [0030].

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Singh and Teng because, it would enable performing transformations to objects as suggested by Teng above.

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Regarding claim 25, Singh discloses the method of claim 24, wherein the first graphical object outputs a signal, and wherein executing the copy and morph operation further comprises creating a signal tap block for tapping the signal (see for example Fig. 5C, and related text).

Regarding claim 26, Singh discloses the method of claim 24, wherein the first graphical object is a line representing a signal, and wherein executing the copy and morph operation further comprises: creating a signal tap block for tapping the signal (see for example Fig. 5C, and related text).

Regarding claim 27, Singh discloses the method of claim 24, wherein the first graphical object and the second graphical object are functionally related blocks (see for example Fig. 213, item 24 and related text).

Regarding claim 28, Singh discloses the method of claim 27, wherein the first graphical object and the second graphical object are source blocks (see for example Fig. 2B, item 24 and related text).

Regarding claim 29, Singh discloses the method of claim 24, wherein the second graphical object is an inverse graphical object of the first

graphical object (see for example Fig. 213, and related text).

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Regarding claim 30, Singh discloses the method of claim 24, wherein one of the second graphical Object or the first graphical object is a bus creator block and the other of the second graphical object and said first graphical object is a bus selector block (see for example Fig. 213, and related text).

Regarding Claim 32, Singh discloses the method of claim 24, wherein the list is displayed in one of a context menu, a toolbar or a rollup menu (see for example Fig. 5E, and related text).

Regarding Claim 33, discloses the method of claim 24, further comprising:

receiving a command associated with the copy and morph operation (Sander, 17:10 - 20).

Regarding Claim 34, Singh discloses the method of claim 33, wherein the command is received from a command line mechanism (see for example Fig. 5D, item 82a and related text).

Regarding claim 38, Singh discloses the method of claim 37, wherein g the second graphical object is a signal tap block for tapping a signal (see for example Fig. 5C, and related text).

Regarding claim 39, Singh discloses the method of claim 37, wherein the second graphical object is functionally related graphical object (see for example Fig. 5C, and related text).

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Regarding claim 40, Singh discloses the method of claim 37, wherein the second graphical object is an inverse graphical object (see for example Fig. 213, item 24 and related text).

Claim 41, Singh discloses the method of claim 40, wherein one of the inverse graphical object or the first graphical object is a bus creator block and the other of said inverse graphical object and the first graphical object is a bus selector block (see for example Fig. 213, item 24 and related text).

Regarding claim 43, Singh discloses the method of claim 37, further comprising: displaying a list of one or more transformation operations, the displayed list being, in one of a context menu, a toolbar or a rollup menu (see for example Fig. 5E, and related text).

Regarding claim 44, Singh discloses the method of claim 37, further comprising: the step of receiving a command associated with the copy and morph operation (Sander, 17:10 - 20).

Regarding claim 45, Singh discloses the method of claim 44, wherein the command is received from a command line mechanism (see for example Fig. 5D, item 82a and related text).

an electronic device including memory for storing computer program instructions and data, and a processor for executing the stored

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computer program instructions, the computer program instructions including:

instructions for displaying a list of one or more of transformation operations performable on the selected graphical object, and instructions for, based on a selected transformation operation in the list, executing a morph operation on the selected graphical object to change one or more properties of the selected graphical object for the executable block diagram.

Regarding claim 49, Singh discloses the medium of claim 48, further comprising:

one or more instructions for receiving an input for selecting a transformation operation from the list:

(Sander, 17:10 - 20)

one or more instructions for executing the first transformation operation on the first graphical object to create the second graphical object (Sander, 17:10 - 20).

Regarding claim 56, the method of claim 1, further comprising: caching information related to the first graphical object prior to displaying the list of one or more transformation operations

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performable on the first graphical object (2:25 - 35).

Regarding claim 57, the method of claim 1, further comprising: receiving an input selecting a position to place the second graphical object on the executable block diagram; and placing the second graphical object on the selected position(see for example Fig. 3, item 42, 44 and 46, shows receiving a user selection and enabling the user to make changes).

Response to Arguments

5. Applicant's arguments with respect to claims 1-3, 6-10, 12-19, 21, 23-30, 32-34, 37-41, 43-45, 48-52, and 54-57 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuck Kendall whose telephone number is 571-272-3698. The examiner can normally be reached on 10:00 am - 6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Dam can be reached on 571-272-3695. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Chuck O Kendall/

Primary Examiner, Art Unit 2192